

| | | | |
|-------------------------------|------------------------|---------------------|--|
| Notice of Allowability | Application No. | Applicant(s) | |
| | 10/824,960 | FERRIS, DANIEL J. | |
| | Examiner | Art Unit | |
| | My-Trang N. Ton | 2816 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amdt. filed 7/28/05.
2. ☒ The allowed claim(s) is/are 1-25 and 27-30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____ 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
|---|---|



**MY-TRANG NUTON
PRIMARY EXAMINER**

EXAMINER'S AMENDMENT

In claim 18, last line, replace "the load" with – a load – (for antecedent basis purpose).

Drawings

The drawings were received on 8/4/05. These drawings are acceptable.

Reasons for allowance

The following is an examiner's statement of reasons for allowance:

1. In response to Applicant's Amendment filed on 7/28/05, the rejection made in the last Office action on the Balteanu reference is withdrawn.

2. None of the prior art disclosed or suggested to show the particular structure and/or the particular operation recited in these claims namely: **"a current modifier, coupled to the differential amplifier, the current modifier altering current in the differential amplifier to adjust current through the load"** in combination with "a differential amplifier", "the load" and "the dual differential switching stage" as recited in claim 1; **"a current modifier, coupled to the RF amplifier stage, the current modifier altering current in the RF amplifier stage to adjust current through a load"** in combination with "a Gilbert cell" as recited in claim 18; **"sinking current from the amplifier stage to alter current through the mixer stage"** in combination with "providing a Gilbert cell ..." as recited claim 27; **"means, coupled to the means for amplifying, for injecting current into the means for amplifying to reduce current through the means for receiving the amplified input signal and for providing a**

balanced differential output signal by supplementing current in the means for amplifying in combination with “means for amplifying” and “means for receiving” as recited in claim 28; “means, coupled to the means for amplifying, **for sinking current from the means for amplifying to alter current through the means for receiving the amplified input signal and for providing a balanced differential output signal**” in combination with “means for amplifying” and “means for receiving” as recited in claim 29; “first and second current sources, each coupled to the differential amplifier, **the first and second current sources altering the amplification of the first input signal**” in combination with “a differential amplifier”, “a load” and “a dual differential switching stage” as recited in claim 30.

3. The prior art references submitted by the applicant on IDS form received on 4/15/04 was reviewed and considered. However, as noted above, the limitation “the current modifier” (or sinking current step, or means for injecting current or means for sinking current or the first and second current sources) is not disclosed. Therefore, the claims are patentably distinct over all these prior art references of record.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Any inquiry concerning this communication or earlier communications from the examiner should be directed to My-Trang N. Ton whose telephone number is 571-272-1754. The examiner can normally be reached on 8:00 a.m – 6:30 p.m.

Art Unit: 2816

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



My-Trang N. Ton
Primary Examiner
Art Unit 2816

October 21, 2005